

# Claude Loverdo

## List of Publications by Year in descending order

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28  
papers

2,222  
citations

516710

16  
h-index

526287

27  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic flow and concentration gradients in the gut enhance neutral bacterial diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
2	A rationally designed oral vaccine induces immunoglobulin A in the murine gut that directs the evolution of attenuated <i>Salmonella</i> variants. <i>Nature Microbiology</i> , 2021, 6, 830-841.	13.3	21
3	Cross-scale dynamics and the evolutionary emergence of infectious diseases. <i>Virus Evolution</i> , 2021, 7, .	4.9	13
4	Growing, evolving and sticking in a flowing environment: understanding IgA interactions with bacteria in the gut. <i>Immunology</i> , 2020, 159, 52-62.	4.4	38
5	Enchained growth and cluster dislocation: A possible mechanism for microbiota homeostasis. <i>PLoS Computational Biology</i> , 2019, 15, e1006986.	3.2	20
6	Antibody-mediated crosslinking of gut bacteria hinders the spread of antibiotic resistance. <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 1077-1088.	2.3	5
7	Cultural transmission and biological markets. <i>Biology and Philosophy</i> , 2018, 33, 1.	1.4	1
8	High-avidity IgA protects the intestine by enchaining growing bacteria. <i>Nature</i> , 2017, 544, 498-502.	27.8	307
9	Inflammation boosts bacteriophage transfer between <i>Salmonella</i> spp.. <i>Science</i> , 2017, 355, 1211-1215.	12.6	160
10	Credibility, credulity, and redistribution. <i>Behavioral and Brain Sciences</i> , 2016, 39, e25.	0.7	0
11	Rational Design and Adaptive Management of Combination Therapies for Hepatitis C Virus Infection. <i>PLoS Computational Biology</i> , 2015, 11, e1004040.	3.2	19
12	A Quantitative High-Resolution Genetic Profile Rapidly Identifies Sequence Determinants of Hepatitis C Viral Fitness and Drug Sensitivity. <i>PLoS Pathogens</i> , 2014, 10, e1004064.	4.7	66
13	Granulocytes Impose a Tight Bottleneck upon the Gut Luminal Pathogen Population during <i>Salmonella</i> Typhimurium Colitis. <i>PLoS Pathogens</i> , 2014, 10, e1004557.	4.7	73
14	Modelling clinical data shows active tissue concentration of daclatasvir is 10-fold lower than its plasma concentration. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 724-727.	3.0	11
15	INTERGENERATIONAL PHENOTYPIC MIXING IN VIRAL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1815-1822.	2.3	7
16	Multiple scales of selection influence the evolutionary emergence of novel pathogens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120333.	4.0	52
17	Activation-dependent plasticity of polarized GPCR distribution on the neuronal surface. <i>Journal of Molecular Cell Biology</i> , 2013, 5, 250-265.	3.3	27
18	Evolutionary Invasion and Escape in the Presence of Deleterious Mutations. <i>PLoS ONE</i> , 2013, 8, e68179.	2.5	11

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19	INFLUENCE OF VIRAL REPLICATION MECHANISMS ON WITHIN-HOST EVOLUTIONARY DYNAMICS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 3462-3471.	2.3	17
20	Intermittent search strategies. <i>Reviews of Modern Physics</i> , 2011, 83, 81-129.	45.6	571
21	Mean First-Passage Time of Surface-Mediated Diffusion in Spherical Domains. <i>Journal of Statistical Physics</i> , 2011, 142, 657-685.	1.2	65
22	Optimal Reaction Time for Surface-Mediated Diffusion. <i>Physical Review Letters</i> , 2010, 105, 150606.	7.8	112
23	Quantifying Hopping and Jumping in Facilitated Diffusion of DNA-Binding Proteins. <i>Physical Review Letters</i> , 2009, 102, 188101.	7.8	97
24	Enhanced reaction kinetics in biological cells. <i>Nature Physics</i> , 2008, 4, 134-137.	16.7	155
25	Optimizing intermittent reaction paths. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7059.	2.8	53
26	Sliding and jumping of single EcoRV restriction enzymes on non-cognate DNA. <i>Nucleic Acids Research</i> , 2008, 36, 4118-4127.	14.5	196
27	Solitary Modes of Bacterial Culture in a Temperature Gradient. <i>Physical Review Letters</i> , 2006, 97, 118101.	7.8	36
28	Evidence of anisotropic quenched disorder effects on a smectic liquid crystal confined in porous silicon. <i>Physical Review E</i> , 2006, 73, 011707.	2.1	65